

SCALANCE XR324WG; managed IE switch; 19" rack; 24 x 10/100 Mbps electrical ports; LED diagnostics; reset button; console port; PROFINET device; IEC 62443-4-2 certified network management function; redundancy manager; power supply 24 V DC;



|                                                                |                           |
|----------------------------------------------------------------|---------------------------|
| <b>product type designation</b>                                | <b>SCALANCE XR324 WG</b>  |
| <b>transfer rate</b>                                           |                           |
| transfer rate                                                  | 10 Mbit/s, 100 Mbit/s     |
| <b>interfaces / for communication / integrated</b>             |                           |
| number of electrical connections                               |                           |
| • for network components or terminal equipment                 | 24; RJ45                  |
| number of 10/100 Mbit/s RJ45 ports / integrated                | 24                        |
| <b>interfaces / other</b>                                      |                           |
| number of electrical connections                               |                           |
| • for operator console                                         | 1                         |
| • for power supply                                             | 1                         |
| type of electrical connection                                  |                           |
| • for power supply                                             | 2 x 2-pin terminal block  |
| <b>supply voltage, current consumption, power loss</b>         |                           |
| type of voltage supply / redundant power supply unit           | No                        |
| <b>type of voltage / 1 / of the supply voltage</b>             | DC                        |
| • supply voltage / 1 / rated value                             | 24 V                      |
| • power loss [W] / 1 / rated value                             | 7.2 W                     |
| • supply voltage / 1 / rated value                             | 19.2 ... 28.8 V           |
| • consumed current / 1 / maximum                               | 0.3 A                     |
| • type of electrical connection / 1 / for power supply         | 2 x 2-pole terminal block |
| • product component / 1 / fusing at power supply input         | Yes                       |
| <b>ambient conditions</b>                                      |                           |
| ambient temperature                                            |                           |
| • during operation                                             | 0 ... 60 °C               |
| • during storage                                               | -40 ... +85 °C            |
| • during transport                                             | -40 ... +85 °C            |
| relative humidity                                              |                           |
| • at 25 °C / without condensation / during operation / maximum | 95 %                      |
| protection class IP                                            | IP30                      |
| <b>design, dimensions and weights</b>                          |                           |
| design                                                         | 19" rack                  |
| number of modular height units / relating to 19-inch cabinet   | 1                         |
| width                                                          | 483 mm                    |
| height                                                         | 44 mm                     |
| depth                                                          | 127 mm                    |
| net weight                                                     | 2.7 kg                    |

|                                                                                 |                                                 |
|---------------------------------------------------------------------------------|-------------------------------------------------|
| fastening method                                                                |                                                 |
| • 19-inch installation                                                          | Yes                                             |
| • 35 mm top hat DIN rail mounting                                               | No                                              |
| • wall mounting                                                                 | No                                              |
| • S7-300 rail mounting                                                          | No                                              |
| • S7-1500 rail mounting                                                         | No                                              |
| <b>product features, product functions, product components / general</b>        |                                                 |
| cascading in the case of a redundant ring / at reconfiguration time of <1~0.3~s | 50                                              |
| cascading in cases of star topology                                             | any (depending only on signal propagation time) |
| <b>product functions / management, configuration, engineering</b>               |                                                 |
| product function                                                                |                                                 |
| • CLI                                                                           | Yes                                             |
| • web-based management                                                          | Yes                                             |
| • MIB support                                                                   | Yes                                             |
| • TRAPs via email                                                               | Yes                                             |
| • configuration with STEP 7                                                     | Yes                                             |
| • RMON                                                                          | Yes                                             |
| • port mirroring                                                                | Yes                                             |
| • multiport mirroring                                                           | No                                              |
| • CoS                                                                           | Yes                                             |
| • PROFINET IO diagnosis                                                         | Yes                                             |
| PROFINET conformity class                                                       | B                                               |
| network load class / acc. to PROFINET                                           | 2                                               |
| product function / switch-managed                                               | Yes                                             |
| protocol / is supported                                                         |                                                 |
| • Telnet                                                                        | Yes                                             |
| • HTTP                                                                          | Yes                                             |
| • HTTPS                                                                         | Yes                                             |
| • TFTP                                                                          | Yes                                             |
| • FTP                                                                           | Yes                                             |
| • BOOTP                                                                         | Yes                                             |
| • GMRP                                                                          | No                                              |
| • DCP                                                                           | Yes                                             |
| • LLDP                                                                          | Yes                                             |
| • SNMP v1                                                                       | Yes                                             |
| • SNMP v2                                                                       | Yes                                             |
| • SNMP v3                                                                       | Yes                                             |
| • IGMP (snooping/querier)                                                       | Yes                                             |
| identification & maintenance function                                           |                                                 |
| • I&M0 - device-specific information                                            | Yes                                             |
| • I&M1 – higher level designation/location designation                          | Yes                                             |
| <b>product functions / diagnostics</b>                                          |                                                 |
| product function                                                                |                                                 |
| • port diagnostics                                                              | Yes                                             |
| • statistics Packet Size                                                        | Yes                                             |
| • statistics packet type                                                        | Yes                                             |
| • error statistics                                                              | Yes                                             |
| • SysLog                                                                        | Yes                                             |
| <b>product functions / VLAN</b>                                                 |                                                 |
| product function                                                                |                                                 |
| • VLAN - port based                                                             | Yes                                             |
| • VLAN - protocol-based                                                         | No                                              |
| • VLAN - IP-based                                                               | No                                              |
| • VLAN dynamic                                                                  | Yes                                             |
| number of VLANs / maximum                                                       | 257                                             |
| number of VLANs - dynamic / maximum                                             | 257                                             |
| number of VLANs / at ring redundancy (HRP; MRP; standby link)                   | 35                                              |
| protocol / is supported / GVRP                                                  | No                                              |

| product functions / DHCP                                                        |                                                                                    |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| product function                                                                |                                                                                    |
| • DHCP client                                                                   | Yes                                                                                |
| • DHCP Option 82                                                                | Yes                                                                                |
| • DHCP Option 66                                                                | Yes                                                                                |
| • DHCP Option 67                                                                | Yes                                                                                |
| product functions / redundancy                                                  |                                                                                    |
| product function                                                                |                                                                                    |
| • ring redundancy                                                               | Yes                                                                                |
| • High Speed Redundancy Protocol (HRP)                                          | Yes                                                                                |
| • high speed redundancy protocol (HRP) with redundancy manager                  | Yes                                                                                |
| • high speed redundancy protocol (HRP) with standby redundancy                  | Yes                                                                                |
| protocol / is supported / Media Redundancy Protocol (MRP)                       | Yes                                                                                |
| product function                                                                |                                                                                    |
| • media redundancy protocol (MRP) with redundancy manager                       | Yes                                                                                |
| • redundancy procedure STP                                                      | Yes                                                                                |
| • redundancy procedure RSTP                                                     | Yes                                                                                |
| • redundancy procedure MSTP                                                     | No                                                                                 |
| • Parallel Redundancy Protocol (PRP)/operation in the PRP-network               | Yes                                                                                |
| • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)             | No                                                                                 |
| • passive listening                                                             | Yes                                                                                |
| protocol / is supported                                                         |                                                                                    |
| • STP/RSTP                                                                      | Yes                                                                                |
| • STP                                                                           | Yes                                                                                |
| • RSTP                                                                          | Yes                                                                                |
| • MSTP                                                                          | No                                                                                 |
| • RSTP big network support                                                      | Yes                                                                                |
| • LACP                                                                          | No                                                                                 |
| product functions / security                                                    |                                                                                    |
| product function                                                                |                                                                                    |
| • ACL - MAC-based                                                               | Yes                                                                                |
| • ACL - port/MAC-based                                                          | Yes                                                                                |
| • IEEE 802.1x (radius)                                                          | Yes                                                                                |
| • broadcast/multicast/unicast limiter                                           | Yes                                                                                |
| • broadcast blocking                                                            | Yes                                                                                |
| protocol / is supported                                                         |                                                                                    |
| • SSH                                                                           | Yes                                                                                |
| product functions / time                                                        |                                                                                    |
| product function                                                                |                                                                                    |
| • SICLOCK support                                                               | Yes                                                                                |
| protocol / is supported                                                         |                                                                                    |
| • NTP                                                                           | Yes                                                                                |
| • SNTP                                                                          | Yes                                                                                |
| • IEEE 1588 profile default                                                     | No                                                                                 |
| standards, specifications, approvals                                            |                                                                                    |
| standard                                                                        |                                                                                    |
| • for FM                                                                        | FM3611: Class 1, Division 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 |
| • for safety / from CSA and UL                                                  | UL 60950-1, CSA C22.2 No. 60950-1, UL 61010-2-201                                  |
| • for emitted interference                                                      | EN 61000-6-4 (Class B)                                                             |
| • for interference immunity                                                     | EN 61000-6-2                                                                       |
| IT security for industrial automation systems / according to IEC 62443-4-2:2019 | Yes                                                                                |
| MTBF                                                                            | 56 y                                                                               |
| reference code                                                                  |                                                                                    |

|                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <ul style="list-style-type: none"> <li>• acc. to IEC 81346-2</li> <li>• according to IEC 81346-2:2019</li> </ul>                                                                                                                                                                                                                                                               | KF<br>KFE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>standards, specifications, approvals / CE</b>                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| certificate of suitability / CE marking                                                                                                                                                                                                                                                                                                                                        | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>standards, specifications, approvals / hazardous environments</b>                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| standard / for hazardous zone                                                                                                                                                                                                                                                                                                                                                  | EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• from CSA and UL</li> </ul>                                                                                                                                                                                                                                                                                                            | ANSI/ISA 12.12.01, CAN/CSA C22.2 No. 213-M1987                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| certificate of suitability                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>• ATEX</li> </ul>                                                                                                                                                                                                                                                                                                                       | Yes; EN 60079-0, EN60079-15, Ex II 3 G Ex nA II T4 KEMA 07 ATEX 0145X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• IECEx</li> </ul>                                                                                                                                                                                                                                                                                                                      | Yes; IEC 60079-0, IEC 60079-15, IECEx DEK 14.0025X, Ex nA IIC T4 Gc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>• CCC / for hazardous zone according to GB standard</li> </ul>                                                                                                                                                                                                                                                                          | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>standards, specifications, approvals / other</b>                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| certificate of suitability                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>• C-Tick</li> </ul>                                                                                                                                                                                                                                                                                                                     | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>• KC approval</li> </ul>                                                                                                                                                                                                                                                                                                                | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>• railway application in accordance with EN 50155</li> </ul>                                                                                                                                                                                                                                                                            | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>further information / internet-Links</b>                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Internet-Link                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to website: Industrial communication</li> <li>• to website: Industry Mall</li> <li>• to website: Information and Download Center</li> <li>• to website: Image database</li> <li>• to website: CAX-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul> | <a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a><br><a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a><br><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a><br><a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a><br><a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a><br><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a><br><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>security information</b>                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| security information                                                                                                                                                                                                                                                                                                                                                           | <p>Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action (e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit <a href="http://www.siemens.com/industrialsecurity">http://www.siemens.com/industrialsecurity</a>. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <a href="http://support.automation.siemens.com">http://support.automation.siemens.com</a>. (V3.4)</p> |

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